





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 127533-654	FOR FURTHER ACTION		ionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/r		Priority date (day/month/year)			
PCT/JP00/06524	22 September 2000 (2	2.09.00)	22 September 1999 (22.09.99)			
International Patent Classification (IPC) or national classification and IPC G01N 33/566, 33/58, 33/53, C12Q 1/68, C12N 15/00						
Applicant WAKUNAGA PHARMACEUTICAL CO., LTD.						
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
This REPORT consists of a total of	sheets, including	ng this cover s	heet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a to	otal of sheets.					
This report contains indications rela	This report contains indications relating to the following items: 3. This report contains indications relating to the following items:					
I Basis of the report						
II Priority	II Priority					
III Non-establishment						
IV Lack of unity of inv						
v Reasoned statement citations and explan	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents	cited					
VII Certain defects in the international application						
VIII Certain observation	VIII Certain observations on the international application					
Date of submission of the demand Date of completion of this report						
16 March 2001 (16.03.01)			ptember 2001 (06.09.2001)			
Name and mailing address of the IPEA/JP	Autho	rized officer				
Facsimile No.	Telepi	ione No.	9			

I. Basis of the report					
1. With	regard to the elements of the international application:*				
	the international application as originally filed				
ΙĦ	the description:				
_	pages, as originally filed				
ł	pages , filed with the demand				
Į.	pages , filed with the letter of				
	the claims: pages , as originally file.				
ì	pages , as originally filed pages , as amended (together with any statement under Article 19				
1	pages, filed with the demand				
ļ	pages, filed with the letter of				
	the drawings:				
1	pages, as originally file				
1	pages, filed with the demand				
Į.	pages, filed with the letter of				
	the sequence listing part of the description:				
	pages, as originally file				
1	pages, filed with the demand				
1	pages, filed with the letter of				
2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in wh the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which which the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)).					
	the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and or 55.3).				
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the intern preliminary examination was carried out on the basis of the sequence listing: 					
ΙЩ	contained in the international application in written form. filed together with the international application in computer readable form.				
ΙЩ	furnished subsequently to this Authority in written form.				
ΙЩ	furnished subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
⊔	The statement that the information recorded in computer readable form is identical to the written sequence listing habeen furnished.				
4.	The amendments have resulted in the cancellation of:				
1	the description, pages				
1	the claims, Nos.				
1	the drawings, sheets/fig				
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
in th	acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to its report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.1 70.17).				
** Any	** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Internal application No.
PCT/IP00/06524

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims	1-9	YES	
	Claims		NO	
Inventive step (IS)	Claims		YES	
	Claims	1-9	NO	
Industrial applicability (IA)	Claims	1-9	YES	
	Claims		NO	

2. Citations and explanations

Claims 1-9

Document 1: "A Novel Multifunctionally Labelled DNA Probe Bearing an Intercalator and a Fluorophore," (K. Shinozuka), J. Chem. Soc., Chem. Commun. (1994), pages 1377 and 1378

Document 1 describes that a probe having acridine and fluorescein bonded to a nucleic acid changes in fluorescence intensity when a double strand is formed.

A person skilled in the art could have easily conceived of, for example, immobilizing to use for detection of a nucleic acid.

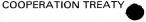
INTERNATIONAL SEARCH REPORT

1	Internation lapplication No.
	J/JP00/06524

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl. G01N33/566, 33/58, 33/53, C12Q1/68, C12N15/00						
:						
According to International Patent Classification (IPC) or to both r	national classification and IPC					
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed Int. Cl ⁷ G01N33/566, 33/58, 33/53,	l by classification symbols) C12Q1/68, C12N15/00					
Jitsuyo Shinan Koho 1922-1996 Kokai Jitsuyo Shinan Koho 1971-2000	Kokai Jitsuyo Shinan Koho 1971-2000 Jitsuyo Shinan Toroku Koho 1996-2000					
Electronic data base consulted during the international search (nar BIOSIS	ne of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category* Citation of document, with indication, where a						
PROBE BEARING AN INTERCALATOR J. CHEM. SOC., CHEM. COMMUN., (1	994),p.1377-1378					
Further documents are listed in the continuation of Box C.	See patent family annex.					
"Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance carlier document but published on or after the international filing date of the constitution of the c	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive ""document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report					
11 December, 2000 (11.12.00)	19 December, 2000 (19.12.00)					
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer					
Facsimile No.	Telephone No.					

PATEMT COOPERATION TREATY

To:



PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

Commissioner

US Department of Commerce

United States Patent and Trademark

Office, PCT 2011 South Clark Place Room

CP2/5C24 Arlington, VA 22202

ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) in its capacity as elected Office 18 May 2001 (18.05.01)

International application No. Applicant's or agent's file reference PCT/JP00/06524 127533-654

International filing date (day/month/year) Priority date (day/month/year) 22 September 2000 (22.09.00) 22 September 1999 (22.09.99)

Applicant

YAMANE, Akio

- 1. The designated Office is hereby notified of its election made:
 - X in the demand filed with the International Preliminary Examining Authority on:

16 March 2001 (16.03.01)

- in a notice effecting later election filed with the International Bureau on:
- 2. The election

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Antonia Muller

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